

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|---|-------|------------------|---------|------------------|
| S1 | 1461 | 438/460-465.ccls. | USPAT | OR | ON | 2005/12/27 09:57 |
| S2 | 1148 | S1 and @ad<"20020625" | USPAT | OR | ON | 2005/12/27 10:08 |
| S3 | 8 | S2 and reinforcing same member | USPAT | OR | ON | 2005/12/27 10:17 |
| S4 | 36 | S2 and ring same shape | USPAT | OR | ON | 2005/12/27 10:31 |
| S5 | 36 | S2 and organic same adhesive | USPAT | OR | ON | 2005/12/27 10:49 |
| S6 | 0 | S4 and reinforcing same member | USPAT | OR | ON | 2005/12/27 10:50 |
| S7 | 4 | S4 and reinforcing | USPAT | OR | ON | 2005/12/27 12:51 |
| S8 | 50 | ("6204564" "4035831" "4606037" "4892842" "4923825" "5011589" "5199055" "5240546" "5480300" "5480494" "5514504" "5530264" "5583057" "5601428" "5697192" "5719979" "5728230" "5811877" "5854819" "5997990" "6033483" "6057174" "6066512" "6065701" "6084319" "6151220" "6208408" "6265242" "6303471" "6380620" "6436509" "6437290" "6445013" "6624448" "6819376" "6821562" "6847121" "6930327" "4991939" "5593916" "5664989" "6172404" "4246595" "4304043" "4356374" "4382228" "4437228" "4495026" "4530557" "4554573").pn. | USPAT | OR | ON | 2005/12/27 12:52 |
| S9 | 5 | S8 and ring same shaped | USPAT | OR | ON | 2005/12/27 13:09 |
| S10 | 242 | 438/33.ccls. | USPAT | OR | ON | 2005/12/27 13:09 |
| S11 | 3433474 | S10 @ad<"20020625" | USPAT | OR | ON | 2005/12/27 13:10 |
| S12 | 194 | S10 and @ad<"20020625" | USPAT | OR | ON | 2005/12/27 13:10 |
| S13 | 1289824 | S12 and rinforcing smae member | USPAT | OR | ON | 2005/12/27 13:11 |
| S14 | 0 | S12 and reinforcing same member | USPAT | OR | ON | 2005/12/27 13:11 |
| S15 | 3 | S12 and reinforcing | USPAT | OR | ON | 2005/12/27 13:13 |
| S16 | 3 | S12 and ring same shape | USPAT | OR | ON | 2005/12/27 13:14 |
| S17 | 759 | 438/68.ccls. 438/113.ccls. | USPAT | OR | ON | 2005/12/27 13:15 |
| S18 | 3433426 | l17and @ad<"20020625" | USPAT | OR | ON | 2005/12/27 13:15 |
| S19 | 594 | S17 and @ad<"20020625" | USPAT | OR | ON | 2005/12/27 13:16 |
| S20 | 86 | S19 and ring | USPAT | OR | ON | 2005/12/27 13:16 |
| S21 | 49 | S20 and shape | USPAT | OR | ON | 2005/12/27 13:16 |
| S22 | 4 | S21 and reinforcing | USPAT | OR | ON | 2005/12/27 13:31 |
| S23 | 0 | "438"/\$.ccls and @ad<"20020625" | USPAT | OR | ON | 2005/12/27 13:32 |
| S24 | 58677 | "438"/\$.ccls. and @ad<"20020625" | USPAT | OR | ON | 2005/12/27 14:36 |
| S25 | 422 | S24 and reinforce | USPAT | OR | ON | 2005/12/27 13:33 |
| S26 | 116 | S25 and member | USPAT | OR | ON | 2005/12/27 13:33 |

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|-----|--------|---|-------|----|----|------------------|
| S27 | 15 | S26 and ring same shape | USPAT | OR | ON | 2005/12/27 13:33 |
| S28 | 521 | S24 and ring-shaped | USPAT | OR | ON | 2005/12/27 14:53 |
| S29 | 2 | S28 and reinforcing same member | USPAT | OR | ON | 2005/12/27 14:37 |
| S30 | 14 | S28 and reinforcing | USPAT | OR | ON | 2005/12/27 14:38 |
| S31 | 2331 | S24 and adhering | USPAT | OR | ON | 2005/12/27 14:53 |
| S32 | 102 | S31 and reinforcing | USPAT | OR | ON | 2005/12/27 14:53 |
| S33 | 53 | S32 and member | USPAT | OR | ON | 2005/12/27 14:54 |
| S34 | 0 | S33 and ring-shape | USPAT | OR | ON | 2005/12/27 14:54 |
| S35 | 19 | S33 and ring | USPAT | OR | ON | 2005/12/27 14:58 |
| S36 | 0 | S24 and ring-shpe | USPAT | OR | ON | 2005/12/27 14:58 |
| S37 | 40 | S24 and ring-shape | USPAT | OR | ON | 2005/12/27 14:58 |
| S38 | 17074 | S24 and thin same semiconductor | USPAT | OR | ON | 2005/12/27 14:59 |
| S39 | 17074 | S24 and thin same semiconductor | USPAT | OR | ON | 2005/12/27 14:59 |
| S40 | 17074 | S24 and thin same semiconductor | USPAT | OR | ON | 2005/12/27 14:59 |
| S41 | 45 | S40 and reinforcing same member | USPAT | OR | ON | 2005/12/27 15:08 |
| S42 | 355172 | (semiconductor sbstrate) and (thining semiconductor subtrate) | USPAT | OR | ON | 2005/12/27 15:09 |
| S43 | 58672 | S24 and (adhering a reinforcing member) | USPAT | OR | ON | 2005/12/27 15:09 |
| S44 | 37266 | S43 and @pd<"20010622" | USPAT | OR | ON | 2005/12/27 15:11 |
| S45 | 13582 | S44 and (ring shape) | USPAT | OR | ON | 2005/12/27 15:11 |
| S46 | 8665 | S45 and (removing the reinforcing member) | USPAT | OR | ON | 2005/12/27 15:12 |
| S47 | 5464 | S46 and (opning at its center) | USPAT | OR | ON | 2005/12/27 15:13 |
| S48 | 5464 | S47 and (ring shape wiht an outer diameter equal to an outer diameter of the semiconductor substrate) | USPAT | OR | ON | 2005/12/27 15:14 |
| S49 | 5444 | S47 and (diameter equal to an outer diameter of the semiconductor substrate) | USPAT | OR | ON | 2005/12/27 15:14 |
| S50 | 5442 | S47 and (diameter equal outer diameter semiconductor substrate) | USPAT | OR | ON | 2005/12/27 15:15 |
| S51 | 292221 | S47 outer same diameter | USPAT | OR | ON | 2005/12/27 15:15 |
| S52 | 353 | S47 and outer same diameter | USPAT | OR | ON | 2005/12/27 15:15 |
| S53 | 11 | S52 and dicing same semiconductor | USPAT | OR | ON | 2005/12/27 15:26 |
| S54 | 40636 | "438"/\$.ccls. and @pd<"20010530" | USPAT | OR | ON | 2005/12/27 15:27 |
| S55 | 4 | S54 and semiconductor near sustrate | USPAT | OR | ON | 2005/12/27 15:27 |
| S56 | 26343 | S54 and semiconductor same substrate | USPAT | OR | ON | 2005/12/27 15:28 |
| S57 | 1337 | S56 and thinning | USPAT | OR | ON | 2005/12/27 15:28 |

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|-----|---------|---|-------|----|----|------------------|
| S58 | 2 | S57 and reinforcing same member | USPAT | OR | ON | 2005/12/27 15:34 |
| S59 | 4 | S57 and protect same member | USPAT | OR | ON | 2005/12/27 15:35 |
| S60 | 34 | S57 and support same member | USPAT | OR | ON | 2005/12/27 15:56 |
| S61 | 50 | ("6204564" "4035831" "4606037" "4892842" "4923825" "5011589" "5199055" "5240546" "5480300" "5480494" "5514504" "5530264" "5583057" "5601428" "5697192" "5719979" "5728230" "5811877" "5854819" "5997990" "6033483" "6057174" "6066512" "6065701" "6084319" "6151220" "6208408" "6265242" "6303471" "6380620" "6436509" "6437290" "6445013" "6624448" "6819376" "6821562" "6847121" "6930327" "4991939" "5593916" "5664989" "6172404" "4246595" "4304043" "4356374" "4382228" "4437228" "4495026" "4530557" "4554573").pn. | USPAT | OR | ON | 2005/12/27 15:57 |
| S62 | 0 | S61 and ring-shape | USPAT | OR | ON | 2005/12/27 15:57 |
| S63 | 47 | S61 and @ad<"20020625" | USPAT | OR | ON | 2005/12/27 15:57 |
| S64 | 3446268 | "438"/\$.ccls. @ad<"20020625" | USPAT | OR | ON | 2005/12/28 10:42 |
| S65 | 36870 | S64 and ring-shaped | USPAT | OR | ON | 2005/12/28 10:43 |
| S66 | 655 | S65 and reinforcing same member | USPAT | OR | ON | 2005/12/28 10:43 |
| S67 | 18 | S66 and linear same expansion | USPAT | OR | ON | 2005/12/28 10:49 |
| S68 | 375165 | S64 and support same member | USPAT | OR | ON | 2005/12/28 10:49 |
| S69 | 1162187 | S64 and support | USPAT | OR | ON | 2005/12/28 10:50 |
| S70 | 192798 | S64 and semiconductor same device | USPAT | OR | ON | 2005/12/28 10:51 |
| S71 | 2444 | S70 and (ring-shaped) | USPAT | OR | ON | 2005/12/28 10:51 |
| S72 | 24 | S71 and reinforcing same member | USPAT | OR | ON | 2005/12/28 10:52 |
| S73 | 138352 | "257"/\$.ccls. | USPAT | OR | ON | 2005/12/28 11:32 |
| S74 | 116046 | S73 and @ad<"20020625" | USPAT | OR | ON | 2005/12/28 11:33 |
| S75 | 4074 | S74 and thinning | USPAT | OR | ON | 2005/12/28 11:33 |
| S76 | 258 | S75 and metallic same film | USPAT | OR | ON | 2005/12/28 11:34 |
| S77 | 0 | S76 and reinforcing same member | USPAT | OR | ON | 2005/12/28 11:34 |
| S78 | 29 | S76 and ring | USPAT | OR | ON | 2005/12/28 11:45 |
| S79 | 230 | S74 and reinforcing same member | USPAT | OR | ON | 2005/12/28 11:46 |
| S80 | 49 | S79 and ring | USPAT | OR | ON | 2005/12/28 12:28 |
| S81 | 3769 | S73 and support same member | USPAT | OR | ON | 2005/12/28 12:30 |
| S82 | 115 | S81 and ring-shaped | USPAT | OR | ON | 2005/12/28 15:59 |
| S83 | 565 | 438/598.ccls. 438/928.ccls. | USPAT | OR | ON | 2005/12/29 08:54 |

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|----------|---------|---|-------|----|----|------------------|
| S84 | 1433 | 438/598.ccls. 438/928.ccls. 438/974.ccls. 438/974.ccls. 438/976.ccls. 438/977.ccls. | USPAT | OR | ON | 2005/12/29 08:56 |
| S85 | 1178 | S84 and @ad<"20020625" | USPAT | OR | ON | 2005/12/29 09:04 |
| S86 | 3 | S85 and reinforcing same member | USPAT | OR | ON | 2005/12/29 09:09 |
| S87 | 55 | S85 and support same member | USPAT | OR | ON | 2005/12/29 09:48 |
| S88 | 3 | S85 and protecting same member | USPAT | OR | ON | 2005/12/29 09:48 |
| S89 | 12 | S85 and ring-shaped | USPAT | OR | ON | 2005/12/29 09:49 |
| S90 | 487 | 438/457.ccls. 438/464.ccls. | USPAT | OR | ON | 2005/12/29 11:09 |
| S91 | 9 | S90 and reinforcing same member | USPAT | OR | ON | 2005/12/29 11:14 |
| S92 | 3358 | 438/106.ccls. 438/110.ccls 438/113-119.ccls. | USPAT | OR | ON | 2005/12/29 11:14 |
| S93 | 1290578 | S92 and support member | USPAT | OR | ON | 2005/12/29 11:15 |
| S94 | 217 | S92 and support same member | USPAT | OR | ON | 2005/12/29 11:15 |
| S95 | 0 | S94 and ring-shape | USPAT | OR | ON | 2005/12/29 11:15 |
| S96 | 45 | S94 and ring | USPAT | OR | ON | 2005/12/29 11:22 |
| S97 | 0 | "438"/\$ And @ad<"2002" | USPAT | OR | ON | 2005/12/29 11:23 |
| S98 | 54758 | "438"/\$ And @ad<"20020625" | USPAT | OR | ON | 2005/12/29 11:23 |
| S99 | 846 | S98 and thinning same semiconductor | USPAT | OR | ON | 2005/12/29 11:24 |
| S10 0 | 176 | S99 and (ring-shape reinforcing member) | USPAT | OR | ON | 2005/12/29 11:25 |
| S10 1 | 1 | ("6303471").PN. | USPAT | OR | ON | 2006/01/05 16:09 |
| S10 2 | 1 | "6629553".pn. | USPAT | OR | ON | 2006/01/06 13:57 |
| S10 3 | 1 | "6730579".pn. | USPAT | OR | ON | 2006/01/06 13:57 |
| S10 4 | 1007 | 438/121-122.ccls. | USPAT | OR | ON | 2006/01/09 09:08 |
| S10 5 | 27 | S104 and reinforcing | USPAT | OR | ON | 2006/01/09 09:26 |
| S10 6 | 729 | 438/455.ccls. | USPAT | OR | ON | 2006/01/09 09:27 |
| S10 7 | 19 | S106 and reinforcing | USPAT | OR | ON | 2006/01/09 09:38 |
| S10 8 | 0 | 438/455.ccls. and 438/459.ccls. and 438/459.ccls. and 438/597.ccls. | USPAT | OR | ON | 2006/01/09 09:40 |
| S10 9 | 1193 | 438/455.ccls. 438/459.ccls. 438/459.ccls. and 438/597.ccls. | USPAT | OR | ON | 2006/01/09 09:40 |
| S11 0 | 1689 | 438/455.ccls. 438/459.ccls. 438/459.ccls. 438/597.ccls. | USPAT | OR | ON | 2006/01/09 09:40 |

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|----------|-------|--|-------|----|----|------------------|
| S11 1 | 35 | S110 and reinforcing | USPAT | OR | ON | 2006/01/09 09:41 |
| S11 2 | 0 | 438/459>"ccls." | USPAT | OR | ON | 2006/01/24 10:56 |
| S11 3 | 656 | 438/459.ccls. | USPAT | OR | ON | 2006/01/24 12:25 |
| S11 4 | 423 | 438/464.ccls. | USPAT | OR | ON | 2006/01/24 13:25 |
| S11 5 | 297 | 438/928.ccls. | USPAT | OR | ON | 2006/01/24 13:25 |
| S11 6 | 71834 | "438"/\$.ccls. | USPAT | OR | ON | 2006/01/24 13:55 |
| S11 7 | 646 | S116 and thinning with semiconductor | USPAT | OR | ON | 2006/01/24 13:55 |
| S11 8 | 40799 | S116 and thin | USPAT | OR | ON | 2006/01/24 13:56 |
| S11 9 | 445 | S118 and reinforcing | USPAT | OR | ON | 2006/01/24 13:56 |
| S12 0 | 388 | S119 and metal | USPAT | OR | ON | 2006/01/24 13:56 |
| S12 1 | 317 | S120 and temperature | USPAT | OR | ON | 2006/01/24 14:30 |
| S12 2 | 76059 | processing with temperature | USPAT | OR | ON | 2006/01/24 13:57 |
| S12 3 | 58 | S121 and processing with temp | USPAT | OR | ON | 2006/01/24 14:05 |
| S12 4 | 0 | S118 and ("metal film at temperature higher than processing temp") | USPAT | OR | ON | 2006/01/24 14:06 |
| S12 5 | 0 | S118 and ("metal film at temperature higher than processing temp") | USPAT | OR | ON | 2006/01/24 14:07 |
| S12 6 | 0 | S118 and ("metal film higher than processing temp") | USPAT | OR | ON | 2006/01/24 14:07 |
| S12 7 | 0 | S118 and ("metal same film higher same processing temp") | USPAT | OR | ON | 2006/01/24 14:08 |
| S12 8 | 0 | S118 and ("metal same film higher same processing temp\$7") | USPAT | OR | ON | 2006/01/24 14:08 |
| S12 9 | 0 | S122 and ("metal same film higher same processing temp\$7") | USPAT | OR | ON | 2006/01/24 14:09 |
| S13 0 | 0 | S122 and ("metal same film higher same processing temp\$7") | USPAT | OR | ON | 2006/01/24 14:09 |
| S13 1 | 71834 | "438"/\$.ccls. | USPAT | OR | ON | 2006/01/24 14:31 |
| S13 2 | 22822 | S131 and thin same film | USPAT | OR | ON | 2006/01/24 14:31 |

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|----------|---------|-----------------------------------|-------|----|----|------------------|
| S13 3 | 289 | S132 and reinforcing | USPAT | OR | ON | 2006/01/24 14:31 |
| S13 4 | 1301128 | S132 metal | USPAT | OR | ON | 2006/01/24 14:32 |
| S13 5 | 18227 | S132 and metal | USPAT | OR | ON | 2006/01/24 14:32 |
| S13 6 | 3998 | S135 and temperature with higher | USPAT | OR | ON | 2006/01/24 14:32 |
| S13 7 | 2633 | S136 and process with temperature | USPAT | OR | ON | 2006/01/24 14:33 |
| S13 8 | 34 | S137 and reinforcing | USPAT | OR | ON | 2006/01/24 14:33 |